

Listing of Claims:

1. (currently amended) An extruded polymeric article having a frosted and textured surface appearance comprised of a polymeric matrix and polymeric particles which are substantially spherical, highly crosslinked, have a mean particle size of between 35 to 60 70 micrometers and have a particle size distribution between 10-110 micrometers wherein the article has:

- a) a Haze number as determined by ASTM D103 of at least 90%,
- b) an opacity as determined by ASTM D20805-80 of at least 10%,
- c) a minimum surface roughness of 0.5 um to 30 um as measured using ASTM methods B46.11 B361.2 and Y14.36; and
- d) a Total White Light Transmission of greater than 78.9% 77.1% for the clear form, as determined by a Hunterlab colorimeter_D25 model using ASTM E1331 and ASTM E1163,

wherein said determinations are made using an 0.125 inch thick extruded sheet comprised of the polymeric matrix and polymeric particles;

wherein said highly crosslinked polymeric particles are comprised of:

15 - 35% by weight styrene;

65 - 85% by weight alkyl methacrylate or alkyl acrylate or a combination thereof; and

0.1 - 2.5% by weight crosslinking agent.

2. (Cancelled)

3. (original) The article of Claim 1 wherein the polymeric matrix is an ABS terpolymer, ASA copolymer, polycarbonate, polyester, PETG, MBS copolymer, HIPS, acrylonitrile/acrylate copolymer, polystyrene, SAN, MMA/S, an acrylonitrile/methyl methacrylate copolymer, impact modified polyolefins, PVC, impact modified PVC, imidized acrylic polymer, acrylic polymer or impact modified acrylic polymer.

4. (previously presented) The article of Claim 3 wherein the polymeric matrix is comprised of polymethyl methacrylate.

5. (original) The article of Claim 1 wherein a frosted appearance is achieved through the mismatch of the refractive indices of the polymeric particles and polymeric matrix by greater than 0.02.
6. (previously presented) The article of Claim 1 comprised of
- a) 20 - 90% by weight, polymethyl methacrylate or alkyl methacrylate/alkyl acrylate copolymer matrix;
 - b) 0 - 50% by weight, modifiers; and
 - c) 5 - 60% by weight, highly crosslinked spherical polymeric particles comprised of about 0-100 % by weight, styrene; 0-100% by weight, alkyl methacrylate, 0-100% by weight, alkyl acrylate and crosslinking agent.
- 7-9. (cancelled)
10. (currently amended) The article of ~~Claim 9~~ Claim 1 wherein the crosslinking agent is ethylene glycol dimethacrylate, divinylbenzene or allyl methacrylate.
11. (original) The article of Claim 10 wherein the crosslinking agent is divinylbenzene.
- 12 and 13. (cancelled)
14. (currently amended) The resin of ~~Claim 12~~ Claim 10 wherein the crosslinking agent is allylmethacrylate.
15. (currently amended) The resin of ~~Claim 12~~ Claim 10 wherein the polymeric particles contain a colorant.
16. (currently amended) A resin comprised of
- a) 60 - 85% by weight, matrix comprised of polymethyl methacrylate; and

b) 15 - 40% by weight, highly crosslinked spherical polymeric particles comprised of:

15 - 35% by weight, styrene

65 - 85% by weight, methyl methacrylate

0.5-1.5% by weight, allyl methacrylate;

wherein the polymeric particles have a mean particle size of 25-55 micrometers, and a particle size distribution of between 15-110 micrometers, and wherein if the resin is extruded into a 0.125 inch thick sheet, the sheet has a Haze number as determined by ASTM D103 of at least 90%, an opacity as determined by ASTM D20805-80 would be at least 10%, a minimum surface roughness of 0.5 um to 30 um as measured using ASTM methods B46.11 B361.2 and Y14.36 and a Total White Light Transmission of greater than ~~78.9%~~ 77.1% for the clear form measured by a Hunterlab colorimeter-D25 model using ASTM E1331 and ASTM E1163.

17. (currently amended) A resin comprised of:

a) 20 - 90% by weight, matrix comprised of polymethyl methacrylate or alkyl methylacrylate/alkyl acrylate copolymer;

b) 0 - 50% by weight, modifiers; and
5 - 40% by weight, highly crosslinked spherical polymeric particles comprised of about 0-100% 15 to 35% by weight, styrene, 0-100% 65-85% by weight, alkyl methacrylate, 0-100% by weight, alkyl acrylate, or a mixture thereof and crosslinking agent wherein the polymeric particles have a mean particle size of ~~25-55~~ 70 micrometers, and a particle size distribution of between 15-110 micrometers, and wherein if the resin is extruded into a 0.125 inch thick sheet, the sheet has a Haze number as determined by ASTM D103 of at least 90%, an opacity as determined by ASTM D20805-80 would be at least 10%, a minimum surface roughness of 0.5 um to 30 um as measured using ASTM methods B46.11 B361.2 and Y14.36 and a Total White Light Transmission of greater than ~~78.9%~~ 77.1% for the clear form measured by a Hunterlab colorimeter_D25 model using ASTM E1331 and ASTM E1163.